



Cg/C

PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 6,916,640 *B2*) Serial No. 09/975,273
Inventor(s): Hanry YU *et al*) Filed: October 12, 2001
Issue Date: July 12, 2005) Attorney Docket No. 004814.00003

For: MULTI-LAYER CELL ENCAPSULATION FOR TISSUE ENGINEERING

REQUEST FOR CERTIFICATE OF CORRECTION

U.S. Patent and Trademark Office
Customer Service Window
Randolph Building, Mail Stop: Certificate of Correction Branch
401 Dulany Street
Alexandria, VA 22314

Certificate
FEB 21 2006
of Correction

Sir:

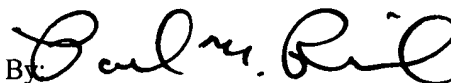
Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves one page.

The mistakes identified in the appended Form occurred through no fault of the Applicants, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience is the initialed Information Disclosure Statement enclosed with the Notice of Allowance dated February 25, 2005.

Issuance of the Certificate of Correction containing the corrections is respectfully requested. Since these changes are necessitated through no fault of the Applicants, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

By: 

Paul M. Rivard
Registration No. 43,446

Dated: February 14, 2005

1001 G Street, N.W. (11th Fl.)
Washington, D.C. 20001
(202) 824-3000

FEB 21 2006

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.: 6,916,640 *B2*

DATED: July 12, 2005

INVENTOR(S): Hanry YU *et al*

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the cover page, References Cited (56), Other Publications:

In the last reference, please replace "(MIN8)" with --(MIN6)--

On page 2, Column 2, first reference:

Please replace "Leibe" with --Liebe--

On page 2, Column 2, 9th reference:

Please replace "75-83" with --78-83--

Mailing Address of Sender:

Banner & Witcoff, Ltd.
11th Floor
1001 G Street, N.W.
Washington, DC 20001-4597

FORM PTO 1050 (Rev.2-93)

U.S. PAT. NO

No. of add'l copies
@ \$0.50 per page

☐

FEB 21 2006

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.: 6,916,640 *B2*

DATED: July 12, 2005

INVENTOR(S): Harry YU *et al*

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the cover page, References Cited (56), Other Publications:

In the last reference, please replace "(MIN8)" with --(MIN6)--

On page 2, Column 2, first reference:

Please replace "Leibe" with --Liebe--

On page 2, Column 2, 9th reference:

Please replace "75-83" with --78-83--

Mailing Address of Sender:

Banner & Witcoff, Ltd.
11th Floor
1001 G Street, N.W.
Washington, DC 20001-4597

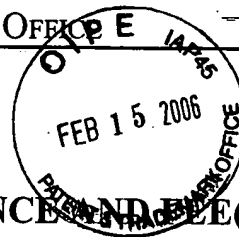
FORM PTO 1050 (Rev.2-93)

U.S. PAT. NO

No. of add'l copies
@ \$0.50 per page

☐

FEB 21 2006



NOTICE OF ALLOWANCE AND FEE(S) DUE

22907 7590 02/25/2005

BANNER & WITCOFF
1001 G STREET N W
SUITE 1100
WASHINGTON, DC 20001

RECEIVED

FEB 28 2005

BANNER WITCOFF

EXAMINER

FORD, ALLISON M

ART UNIT

PAPER NUMBER

1651

DATE MAILED: 02/25/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,273	10/12/2001	Harry Yu	004814.00003	8862

TITLE OF INVENTION: MULTI-LAYER CELL ENCAPSULATION FOR TISSUE ENGINEERING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	05/25/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Notice of Allowability

Application No.

09/975,273

Examiner

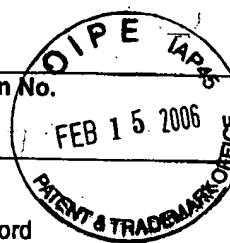
Allison M Ford

Applicant(s)

YU ET AL.

Art Unit

1651



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to telephonic interview 17 February, 2005.
2. ☒ The allowed claim(s) is/are 5,6,27 and 30.
3. ☒ The drawings filed on 12 October 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

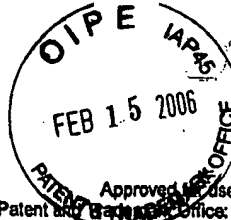
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/975,273/
(use as many sheets as necessary)		Filing Date	October 12, 2001
		First Named Inventor	Harry Yu et al.
		Group Art Unit	1651
		Examiner Name	Ford, Allison M.
		Attorney Docket Number	004814.00003
Sheet	1	of	4

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			
		US-			

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
ay	1	ISHIKAWA, O., KONDO, A., OKADA, K., MIYACHI, Y., and FURUMURA, M., British Journal of Dermatology, Morphological and biochemical analyses on fibroblasts and self-produced collagens in a novel three-dimensional culture, 1997: 138: pp. 8-11.		
	2	PUVIANI, A.C., LODI, A., TASSINARI, B., OTTOLENGHI, C., GANZERLI, S., RICCI, D., PAZZI, P., and MORSIANI, E., The International Journal of Artificial Organs, Morphological and functional evaluation of isolated rat hepatocytes in three dimensional culture systems, Vol. 22, no. 11, 1999, pp. 778-785.		
	3	CAPPAL, A., PETRUZZO, P., RUII, G., CONGUI, T., DESSY, E., DE SETA, W., SANTA CRUZ, G., and BROTZU, G., The International Journal of Artificial Organs, Evaluation of new small barium alginate microcapsules, Vol. 18, no. 2, 1995, pp. 98-102.		
	4	KONUR, ABDO, KREUTZ, MARINA, KNÜCHEL, RUTH, KRAUSE, STEFAN W., and ANDREESEN, REINHARD, International Union Against Cancer Journal, Three-Dimensional Co-Culture of Human Monocytes and Macrophages with Tumor Cells: Analysis of Macrophage Differentiation and Activation, 66, pp. 645-652, 1996.		
	5	ZEKORN, T., ENDL, A., HORCHER, A., SIEBERS, U., BRETZEL, R.G., and FEDERLIN, K., Transplantation Proceedings, Mixed Lymphocyte Islet Culture for Assessment of Immunoprotection by Islet Microencapsulation, Vol. 27, No. 8, December, 1995, pp. 3362-3363.		
	6	KUNZ-SCHUGHART, LEONI A., KREUTZ, MARINA, and KNUECHEL, RUTH, International Journal of Experimental Pathology, Multicellular spheroids: a three-dimensional in vitro culture system to study tumour biology, 1998, 79, pp. 1-23.		
	7	KAUFMANN, P.M., HEIMRATH, S., KIM, B.S., and MOONEY, D.J., Elsevier Science Inc., Cell Transplantation, Highly Porous Polymer Matrices as a Three-Dimensional Culture System for Hepatocytes, Vol. 6, No. 5, pp. 463-468, 1997.		
	8	WEBER, COLLIN J., HAGLER, MARY K., CHRYSSOCHOOS, JOHN T., KAP, JUDITH A., KORBUTT, GREGORY S., RAJOTTE, RAY V., and LINSLEY, PETER S., Elsevier Science Inc., Cell Transplantation, CTLA4-1g Prolongs Survival of Microencapsulated Neonatal Porcine Islet Xenografts in Diabetic NOD Mice, Vol. 6, No. 5, pp. 505-508, 1997.		
	9	WANG, W.J., INOUE, K., HAYASHI, H., AUNG, T., TUN, T., GU, Y.J., KAJI, H., ECHIGO, Y., KATO, M., DOI, R., SETOYAMA, H., KAWAKAMI, Y., IMAMURA, M., MAETANI, S., MORIKAWA, N., IWATA, H., IKADA, Y., and MIYAZAKI, J.I., Transplantation Proceedings, Efficacy of Microencapsulation of a Pancreatic B-Cell Line (MIN6) in an Agarose/PPSA Microbead as a Bioartificial Pancreas, Vol. 28, NO. 2, April 1996, pp. 1094-1096.		
	10	PUEYO, M.E., DARQUY, S., ARBET-ENGELS, C., POITOUT, V., DI MARIA, S., GANGNERAU, M.N., and REACH, G., The International Journal of Artificial Organs, A Method for obtaining monodispersed cells from isolated porcine islets of Langerhans, Vol. 18, No. 1, 1995, pp. 34-38.		
	11	WOODS, ERIK J., LIU, JUN, ZIEGER, MICHAEL A.J., LAKEY, JONATHAN R.T., and CRITSER, JOHN K., Cell Transplantation, The Effects of Microencapsulation on Pancreatic Islet Osmotically Induced Volumetric Response, Vol. 8, pp. 698-708, 1999.		
V	12	AO, Z., KORBUTT, G.S., WARNOCK, G.L., FLASHNER, M., COLBY, C.B., LUSKEY, K.L., and RAJOTTE, R.V., Transplantation Proceedings, Microencapsulation Improves Canine Islet Survival In Vivo, Vol. 27, No. 8, December, 1995, pp. 3349-3350.		

Examiner Signature	<i>Allison M. Ford</i>	Date Considered	14 FEB 2006
-----------------------	------------------------	--------------------	-------------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark



PTO/SB/08B(10-01)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2

of

4

Complete if Known

Application Number	09/975,273
Filing Date	October 12, 2001
First Named Inventor	Henry Yu et al.
Group Art Unit	1651
Examiner Name	Ford, Allison M.
Attorney Docket Number	004814.00003

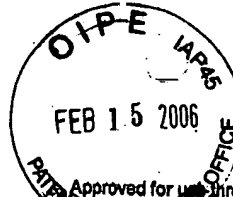
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ag	13	BISHOP, J.R.P., NELSON, G., and LAMB, J., J. Microencapsulation, Microencapsulation In yeast cells, Vol. 15, No. 8, 1988, pp. 761-773.	
	14	KYLE, ALASTAIR H., CHAN, CARMEL T.O., and MINCHINTON, ANDREW I., Biophysical Journal, Characterization of Three-Dimensional Tissue Cultures Using Electrical Impedance Spectroscopy, Vol. 78, May 1999, pp. 2640-2648.	
	15	LAKEY, JONATHAN R.T., CAVANAGH, THOMAS J., ZIEGER< MICHAEL A.J., and WRIGHT, MARYJO, Elsevier Science, Inc., Cell Transplantation, Evaluation of a Purified Enzyme Blend for the Recovery and Function of Canine Pancreatic Islets, Vol. 7, No. 4, pp. 365-372, 1998.	
	16	HSU, BREND RAY-SEA, CHNAG< FU-HSIUNG, JUANG, JYUHN-HUARNG, HUANG, YU-YAO, and FU, SHIN-HUEI, Cell Transplantation, The Rescue Effect of 15-Deoxypergualin on Intraperitoneal Microencapsulated Xenoislets, Vol. 8, pp. 307-315, 1999.	
	17	BRUNI, S. and CHANG, T.M.S., The International Journal of Artificial Organs, Effect of donor strains and age of the recipient in the use of microencapsulated hepatocytes to control hyperbilirubinemia in the Gunn rat, Vol. 18, No. 5, 1995, pp. 332-339.	
	18	TAKESHITA, KAZUYOSHI, ISHIBASHI, HARUAKI, SUZUKI, MASAYUKI, YAMAMOTO, TAKUMI, AKAIKE, TOSHIHIRO, and KODAMA, MASASHI, Artificial Organs, High Cell-Density Culture System of hepatocytes Entrapped in a Three-Dimensional Hollow Fiber Module with Collagen Gel, Vol. 18, No. 2, pp. 191-193, 1995.	
	19	CHANDY, THOMAS, MOORANDIAN, DANIEL L., and RAO, GUNDU H.R., Artificial Organs, Evaluation of Modified Alginate-Chitosan-Polyethylene Glycol Microcapsules for Cell Encapsulation, Vol. 23, No. 10, pp. 894-903, 1999.	
	20	JORK, A., THÜRMER, F., CRAMER, H., ZIMMERMANN, G., GESSNER, P., HÄMMEL, K., HOFMANN, G., KUTTLER, B., HAHN, J.-J., JOSIMOVIC-ALASEVIC, O., FRITSCH, K.-G., and ZIMMERMANN, U., Springer-Verlag, Appl Microbiol Biotechnol, Biocompatible alginate from freshly collected <i>Laminaria pallida</i> for implantation, Vol. 63, pp. 224-229, 2000.	
	21	LÖHR, MATTHIAS, BAGO, ZOLTAN TIBOR, BERGMEISTER, HELGA, CEJUNA, MANFRED, FREUND, MATTHIAS, GELBMANN, WOLFGANG, GÜNZBURG, WALTER H., JESNOWSKI, RALF, HAIN, JOHANNES, HAUENSTEIN, KARLHEINZ, HENNINGER, WOLFGANG, HOFFMEYER, ANNE, KARLE, PETER, KRÖGER, JENS-CHRISTIAN, KUNDT, GÖNTHER, LOSERT, LIEBE, STEFAN, LOSERT, UDO, MÜLLER, PETRA, PROBST, ALEXANDER, PÖSCHEL, RENNER, MATTHIAS, RENZ, RENATE, SALLER, ROBERT, SALMONS, BRIAN, SCHUH, MAXIMILIAN, SCHWENDENWEIN, ILSE, VON ROMBS, KERSTIN, WAGNER, THOMAS, and WALTER, INGRID, Springer-Verlag, J Mol Med, Cell Therapy using microencapsulated 293 cells transfected with a gene construct expressing CYP2B1, an ifosfamide converting enzyme, instilled intra-arterially in patients with advanced-stage pancreatic carcinoma: a phase I/II study, Vol. 77, pp. 393-398, 1999.	
	22	ROBITAILLE, ROBERT, PARISEAU, JEAN-FRANÇOIS, LEBLOND, FRANÇOIS A., LAMOUREUX, MICHEL, LEPAGE, YVES, and HALLÉ, JEAN-PIERRE, John Wiley & Sons, Inc., Studies on small (<350µm) alginate-poly-L-lysine microcapsules. III. Biocompatibility of smaller versus standard microcapsules, pp. 116-120, 1999.	
	23	DE VOS, PAUL, VAN STRAATEN, JEANETTE, F.M., NIEUWENHUIZEN, ARIE G., DE GROOT, MARTIJN, PLOEG, RUTGER J., DE HAAN, BART J., and VAN SCHILFGAARDE, REINOUT, Diabetes, Why Do Microencapsulated Islet Grafts Fail in the Absence of Fibrotic Overgrowth?, Vol. 48, pp. 1381-1388, July 1999.	
	24	SPANCAKE, KIMBERLY M., ANDERSON, CHRISTINE B., WEAVER, VALERIE M., MATSUNAMI, NORISADA, BISSELL, MINA J., and WHITE, RAYMOLD L., Cancer Research, E7-transduced Human Breast Epithelial Cells Show Partial Differentiation in Three-dimensional Culture, Vol 59, pp. 6042-6045, December 15, 1999.	
	25	ACARTÜRK, F. and TAKKA, S., J. Microencapsulation, Calcium alginate microparticles for oral administration: I effect of sodium alginate type drug release and drug entrapment efficiency, Vol. 16, No. 3, pp. 291-301, 1999.	
26	TAKKA, S. and J ACARTÜRK, F., Microencapsulation, Calcium alginate microparticles for oral administration: II effect of formulation factors on drug release and drug entrapment efficiency, Vol. 16, No. 3, pp. 275-280, 1999.		
✓	27	CRUISE, GREGORY, M., HEGRE, ORION D., SCHARP, DAVID S., and HUBBELL, JEFFREY A., Biotechnology and Bioengineering, John Wiley & Sons, Inc., A Sensitivity Study of the Key Parameters in the Interfacial Photopolymerization of Poly(ethyleneglycol) Diacrylate upon Porcine Islets, Vol. 57, No. 6, March 20, 1998, pp. 655-665, 1998.	

Examiner
SignatureDate
Considered

14 FEB 2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PTO/SB/08B(10-01)

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3

of

4

Complete If Known

Application Number	09/975,273
Filing Date	October 12, 2001
First Named Inventor	Henry Yu et al.
Group Art Unit	1651
Examiner Name	Ford, Allison M.
Attorney Docket Number	004814.00003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
af	28	MACHLUF, MARCELLE, ORSOLA, ANNA, and ATALA, ANTHONY, Springer-Verlag, World J Urol, Controlled release of therapeutic agents: slow delivery and cell encapsulation, Vol. 18, pp. 80-83, 2000.	
	29	CHANG, PATRICIA L., VAN RAAMSDONK, JEREMY M., HORTELANO, GONZALO, BARSOUM, SUSAN C., MACDONALD, NICOLE C., and STOCKLEY, TRACY L., TIBTECH, Elsevier Science Inc., <i>In vivo</i> delivery of heterologous proteins by microencapsulated recombinant cells, Vol. 17, pp. 78-83, February 1999.	
	30	YU, C.H., LENG, X.S., PENG, J.R., WEI, Y.H., LIU, J.C., and DU, R.Y., Elsevier Science Inc., Transplantation Proceedings, Fructose Protects Rat Hepatocytes Against Hypoxic Injury During the Process of Isolation and Microencapsulation, Vol. 31, pp. 1080-1083, 1999.	
	31	LANZA, ROBERT P., ECKER, DAWN M., KÖHREIBER, WILLEM M., MARSH, JOANNE P., RINGELING, JOHN, and CHICK, WILLIAM L., Springer-Verlag, J Mol Med, Transplantation of islets using microencapsulation: studies in diabetic rodents and dogs, Vol. 77, pp. 206-210, 1999.	
	32	VAN SCHILFGAARDE, R. and DE VOS, P., Springer-Verlag, J Mol Med, Factors influencing the properties and performance of microcapsules for immunoprotection of pancreatic islets, Vol. 77, pp. 199-205, 1999.	
	33	ZEKORN, TOBIAS D.C., HORCHER, ANDRÉA, SIEBERS, SIEBERS, ULRIKE, FEDERLIN, KONRAD, and BRETZEL, REINHARD G., Springer-Verlag, J Mol Med, Synergistic effect of microencapsulation and immunosuppression on islet allograft survival in bioartificial pancreas, Vol. 77, pp. 193-198, 1999.	
	34	PEIRONE, MICHAEL, ROSS, COLIN J.D., HORTELANO, GONZALO, BRASH, JOHN L., and CHANG, PATRICIA L., John Wiley & Sons, Inc., Encapsulation of various recombinant mammalian cell types in different alginate microcapsules, pp. 587-598, 1998.	
	35	KUZUYA, MASAFUMI, SATAKE, SHOSUKE, RAMOS, MIGUEL A., KANDA, SHIGERU, KOIKE, TERUHIKO, YOSHINO, KOICHIRO, IKEDA, SHOJI, and IGUCHI, AKIHISA, Experimental Cell Research, Induction of Apoptotic Cell Death in Vascular Endothelial Cells Cultured in Three-Dimensional Collagen Lattice, Vol. 248, pp. 498-508, 1999.	
	36	GÓMEZ-LECHÓN, MARIA JOSÉ, JOVER, RAMIRO, DONATO, TERESA, PONSODA, XAVIER, RODRIGUEZ, CRISTINA, STENZEL, KARSTEN G., KLOCKE, RAINER, PAUL, DIETER, GUILLÉN, ISABEL, BORT, ROQUE, and CASTELL, JOSÉ V., Journal of Cellular Physiology, Long-Term Expression of Differentiated Functions in Hepatocytes Cultured in Three-Dimensional Collagen Matrix, Vol. 177, pp. 653-662, 1998.	
	37	GARFINKEL, M.D., MARC R., HARLAND, M.D., ROBERT C., and OPARA, Ph.D., EMMANUEL C., Journal of Surgical Research, Optimization of the Microencapsulated Islet for Transplantation, Vol. 76, pp. 7-10, 1998.	
	38	CAMPIONI, ELLY G., NOBREGA, JOSÉ N., and SEFTON, MICHAEL V., Elsevier Science Ltd., HEMA/MMMA microcapsule implants in hemiparkinsonian rat brain: biocompatibility assessment using [³ H]PK11195 as a marker for gliosis, Biomaterials, Vol. 19, pp. 829-837, 1998.	
	39	TASHIRO, H., IWATA, H., TANIGAWA, M., TSUTSUMI, H., FUSEYA, Y., IKADA, Y., and TSUJI, T., Elsevier Science Inc., Transplantation Proceedings, Microencapsulation Improves Viability of Islets Form CSK Miniature Swine, Vol. 30, p. 491, 1998.	
	40	HISANO, NOBUHARU, MORIKAWA, NORIYUKI, IWATA, HIROO, and IKADA, YOSHITO, John Wiley & Sons, Inc., Entrapment of islets into reversible disulfide hydrogels, pp. 115-123, 1998.	
	41	MAYSINGER, DUSICA and MORINVILLE, ANNE, TIBTECH, Elsevier Science Ltd., Drug delivery to the nervous system, Vol. 15, pp. 410-418, October 1997.	
✓	42	KORBUTT, G.S., ELLIOTT, J.F., AO, Z., FLASHNER, M., WARNOCK, G.L., and RAJOTTE, R.V., Elsevier Science Inc., Transplantation Proceedings, Microencapsulation of Neonatal Porcine Islets: Long-Term Reversal of Diabetes in Nude Mice and <i>In Vitro</i> Protection From Human Complement Mediated Cytotoxicity, Vol. 28, p. 2128, 1997.	

Examiner Signature

Date Considered

14 FEB 05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark